Minna Lanz

List of Publications by Year
in descending order

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83	1,200	567144 15	454834 30
papers	citations	h-index	g-index

87	87	87	841
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	AR-based interaction for human-robot collaborative manufacturing. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101891.	6.1	131
2	The development of an ontology for describing the capabilities of manufacturing resources. Journal of Intelligent Manufacturing, 2019, 30, 959-978.	4.4	111
3	Why social sustainability counts: The impact of corporate social sustainability culture on financial success. Sustainable Production and Consumption, 2019, 17, 1-10.	5.7	101
4	Review of vision-based safety systems for human-robot collaboration. Procedia CIRP, 2018, 72, 111-116.	1.0	95
5	Review on existing VR/AR solutions in humanâ€“robot collaboration. Procedia CIRP, 2021, 97, 407-411.	1.0	68
6	Micro Manufacturing Unit and the Corresponding 3D-Model for the Digital Twin. Procedia Manufacturing, 2018, 25, 55-61.	1.9	61
7	Formal resource and capability descriptions supporting rapid reconfiguration of assembly systems. , 2016, , .		46
8	The FMS Training Center - a versatile learning environment for engineering education. Procedia Manufacturing, 2018, 23, 135-140.	1.9	32
9	Capability Matchmaking Procedure to Support Rapid Configuration and Re-configuration of Production Systems. Procedia Manufacturing, 2017, 11, 1053-1060.	1.9	27
10	Task Balancing Between Human and Robot in Mid-Heavy Assembly Tasks. Procedia CIRP, 2019, 81, 157-161.	1.0	27
11	Learning Experiences Involving Digital Twins. , 2018, , .		25
12	Leveraging Digital Twins for Assisted Learning of Flexible Manufacturing Systems. , 2018, , .		23
13	Formal Resource and Capability Models supporting Re-use of Manufacturing Resources. Procedia Manufacturing, 2018, 19, 87-94.	1.9	21
14	Process planning based on feature recognition method. , 2011, , .		19
15	Product Model ontology and its use in capability-based matchmaking. Procedia CIRP, 2018, 72, 1094-1099.	1.0	19
16	Micro Manufacturing Unit â€“ Creating Digital Twin Objects with Common Engineering Software. Procedia Manufacturing, 2018, 17, 468-475.	1.9	18
17	Learning environment for robotics education and industry-academia collaboration. Procedia Manufacturing, 2019, 31, 79-84.	1.9	18
18	Collaborative Systems and Environments for Future Working Life: Towards the Integration of Workers, Systems and Manufacturing Environments. Professional and Practice-based Learning, 2018, , 25-38.	0.2	18

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19	A Performance Evaluation Concept for Production Systems in an SME Network. Procedia CIRP, 2018, 72, 603-608.	1.0	17
20	Presenting capabilities of resources and resource combinations to support production system adaptation. , 2011, , .		16
21	Concepts, methods and tools for individualized production. Production Engineering, 2017, 11, 205-212.	1.1	16
22	Utilizing SPIN Rules to Infer the Parameters for Combined Capabilities of Aggregated Manufacturing Resources. IFAC-PapersOnLine, 2018, 51, 84-89.	0.5	15
23	Attaining Learning Objectives by Ontological Reasoning using Digital Twins. Procedia Manufacturing, 2019, 31, 349-355.	1.9	13
24	Concept for Virtual Safety Training System for Human-Robot Collaboration. Procedia Manufacturing, 2020, 51, 54-60.	1.9	13
25	Trends for Low-Cost and Open-Source IoT Solutions Development for Industry 4.0. Procedia Manufacturing, 2021, 55, 298-305.	1.9	13
26	Circular Economy in Integrated Product and Production Development Education. Procedia Manufacturing, 2019, 33, 470-476.	1.9	12
27	An Executable Capability Concept in Formal Resource Descriptions. IFAC-PapersOnLine, 2018, 51, 102-107.	0.5	11
28	A concept and local implementation for industry-academy collaboration and life-long learning. Procedia Manufacturing, 2018, 23, 189-194.	1.9	11
29	Implementation of capability matchmaking software facilitating faster production system design and reconfiguration planning. Journal of Manufacturing Systems, 2019, 53, 261-270.	7.6	11
30	Sustainability and performance indicators landscape. , 2014, , .		11
31	Capability matchmaking software for rapid production system design and reconfiguration planning. Procedia CIRP, 2021, 97, 435-440.	1.0	10
32	Impact of Energy Measurements in Machining Operations. , 2010, , .		9
33	Role-based visualization of industrial IoT-based systems. , 2018, , .		9
34	Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect Â® v2. , 2018, , .		8
35	Emotions-aware Digital Twins For Manufacturing. Procedia Manufacturing, 2020, 51, 605-612.	1.9	8
36	Value Proposition of a Resource Description Concept in a Production Automation Domain. Procedia CIRP, 2018, 72, 1106-1111.	1.0	7

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37	Towards the Interoperability of IoT Platforms: A Case Study for Data Collection and Data Storage. IFAC-PapersOnLine, 2021, 54, 1138-1143.	0.5	7
38	Application of a capability-based adaptation methodology to a small-size production system. International Journal of Manufacturing Technology and Management, 2016, 30, 67.	0.1	6
39	Creating Resource Combinations Based on Formally Described Hardware Interfaces. IFIP Advances in Information and Communication Technology, 2019, , 29-39.	0.5	6
40	Digital innovation hubs for robotics â€“ TRINITY approach for distributing knowledge via modular use case demonstrations. Procedia CIRP, 2021, 97, 45-50.	1.0	6
41	Formal Information Model for Representing Production Resources. IFIP Advances in Information and Communication Technology, 2016, , 53-60.	0.5	6
42	Neutral Interface for Assembly and Manufacturing Related Knowledge Exchange in Heterogeneous Design Environment. IFIP Advances in Information and Communication Technology, 2010, , 21-29.	0.5	6
43	Reconfigurable Pilot Lines Enabling Industry Digitalization: An Approach for Transforming Industry and Academia Needs to Requirements Specifications. Procedia CIRP, 2022, 107, 1226-1231.	1.0	6
44	A method to evaluate interface compatibility during production system design and reconfiguration. Procedia CIRP, 2019, 81, 282-287.	1.0	5
45	The virtual FMS â€“ an engineering education environment. Procedia Manufacturing, 2019, 31, 251-257.	1.9	5
46	Lean Manufacturing and Sustainable Development. Encyclopedia of the UN Sustainable Development Goals, 2020, , 423-432.	0.0	5
47	Dynamic operation environment — Towards intelligent adaptive production systems. , 2011, , .		4
48	Proof of concept of a projection-based safety system for human-robot collaborative engine assembly. , 2019, , .		4
49	Lean Indicators for Small Batch Size Manufacturers in High Cost Countries. Procedia Manufacturing, 2020, 51, 1371-1378.	1.9	4
50	Concept for distributed robotics learning environment - Increasing the access to the robotics via modularisation of systems and mobility. Procedia Manufacturing, 2020, 45, 152-157.	1.9	4
51	Product-Process Ontology for Managing Assembly Specific Knowledge Between Product Design and Assembly System Simulation. , 2008, , 99-108.		4
52	Lean Manufacturing and Sustainable Development. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-10.	0.0	3
53	Characteristics of a circular economy framework to support strategic renewal in manufacturing firms. Procedia CIRP, 2019, 81, 653-658.	1.0	3
54	Benchmarking pose estimation for robot manipulation. Robotics and Autonomous Systems, 2021, 143, 103810.	3.0	3

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55	Social Media in Manufacturing: Just Hype or Concrete Benefits?. Lecture Notes in Mechanical Engineering, 2013, , 1023-1034.	0.3	3
56	Social Manufacturing and Open Design. Encyclopedia of the UN Sustainable Development Goals, 2020, , 668-678.	0.0	3
57	Mobile and adaptive User interface for human robot collaboration in assembly tasks. , 2021, , .		3
58	Capability-Based Adaptation of Production Systems - Practical Case Study in TUT-Microfactory Environment. Key Engineering Materials, 2013, 572, 245-248.	0.4	2
59	Shop Floor-Level Control of Manufacturing Companies: An Interview Study in Finland. Management and Production Engineering Review, 2015, 6, 51-58.	1.4	2
60	Web-based solution to automate capability matchmaking for rapid system design and reconfiguration. Procedia CIRP, 2019, 81, 288-293.	1.0	2
61	The Comfort Zone Concept in a Human-Robot Cooperative Task. IFIP Advances in Information and Communication Technology, 2019, , 82-91.	0.5	2
62	Interactive learning activities for education of factory level order-to-delivery process. Procedia Manufacturing, 2020, 45, 504-509.	1.9	2
63	Digital Innovation Hubs for Enhancing the Technology Transfer and Digital Transformation of the European Manufacturing Industry. IFIP Advances in Information and Communication Technology, 2021, , 210-219.	0.5	2
64	Requirements for manufacturing operations management and control systems in a dynamic environment. , 2014, , .		2
65	Comfort Design in Human Robot Cooperative Tasks. Advances in Intelligent Systems and Computing, 2019, , 521-526.	0.5	2
66	Technical Maturity for Industrial Deployment of Robot Demonstrators. , 2021, , .		2
67	Semantic rules for capability matchmaking in the context of manufacturing system design and reconfiguration. International Journal of Computer Integrated Manufacturing, 2023, 36, 128-154.	2.9	2
68	Configurator module to integrate different protocols for IoT solution. , 2018, , .		1
69	Resource Interface Matchmaking as a Part of Automatic Capability Matchmaking. IFIP Advances in Information and Communication Technology, 2021, , 51-62.	0.5	1
70	Guidelines for Designing Human-Friendly User Interfaces for Factory Floor Manufacturing Operators. IFIP Advances in Information and Communication Technology, 2015, , 531-538.	0.5	1
71	Social Sustainability and Continuous Learning in the Circular Economy Framework. Encyclopedia of the UN Sustainable Development Goals, 2020, , 678-691.	0.0	1
72	Towards Intelligent Assembly and Manufacturing Environment â€“ Modular ICT Support for Holonic Manufacturing System. International Federation for Information Processing, 2012, , 154-162.	0.4	1

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73	Information Flows in Future Advanced Manufacturing Ecosystems. IFIP Advances in Information and Communication Technology, 2013, , 70-77.	0.5	1
74	Managing Production Complexity with Intelligent Work Orders. , 2017, , .		1
75	Dimensions for reconfiguration decision-making and concept for feasibility analysis of reconfigurable pilot lines in industry, research and education. Procedia CIRP, 2022, 107, 564-569.	1.0	1
76	Information Flows and Design Intent in the Core of Future Product-Services in the Field of Manufacturing Industry. Key Engineering Materials, 2013, 572, 103-106.	0.4	0
77	Social Capital Characteristics in R&D Project Networks. , 2018, , .		0
78	Social Sustainability and Continuous Learning in the Circular Economy Framework. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-14.	0.0	0
79	Challenges of Knowledge and Information Management during New Product Introduction: Experiences from a Finnish Multinational Company. Interdisciplinary Journal of Information, Knowledge, and Management, 0, 11, 285-308.	0.0	0
80	Analysis of Inter-firm Co-operation in Joint Research and Development Projects. IFIP Advances in Information and Communication Technology, 2016, , 536-543.	0.5	0
81	Material Flow Analysis. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-15.	0.0	0
82	Material Flow Analysis. Encyclopedia of the UN Sustainable Development Goals, 2020, , 462-475.	0.0	0
83	Monolithic vs. hybrid controller for multi-objective Sim-to-Real learning. , 2021, , .		0